Patent Atty Docket No. 14103027USD P02017US

## I. CLAIM AMENDMENTS

## What is claimed is:

- 1. (original) An acoustic waveguide, comprising:
- a first control curve;
- a second control curve;
- a third control curve;
- a fourth control curve; and
- a continuous three-dimensional least-energy-surface coincident with the first control curve, the second control curve, the third control curve and the forth control curve that intersect a circular throat end and a non-elliptical closed control curve that defines a mouth.
- 2. (original) The acoustic waveguide of claim 1, wherein the continuous three-dimensional least-energy-surface is free of discontinuities.
- 3. (original) The acoustic waveguide of claim 1, wherein the continuous three-dimensional surface further includes: a minimum surface area axial section plane of the continuous three-dimensional surface formed from the first control curve, second control curve, third control curve and fourth control curve.
- 4. (original) The acoustic waveguide of claim 3, wherein the minimum surface area axial section plane is at the circular throat end of the acoustic waveguide.
- 5. (original) The acoustic waveguide of claim 1, wherein the first control curve is symmetrical about an axis with the second control curve.
- 6. (original) The acoustic waveguide of claim 5, wherein the third control curve is symmetrical about the axis with the forth control curve.





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7. (original) A method for creation of an acoustic waveguide, comprising: identifying a first control curve; identifying a second control curve that mirrors the first control curve; identifying a third control curve; identifying a forth control curve that mirrors the third control curve; and generating a least-energy-surface that is formed from the first control curve, second control curve, third control curve and fourth control curve and intersect a circular

8. (original) The method of claim 7, where generating further comprises forming the least-energy-surface as a continuous surface minimizing the formation of any discontinuities.

throat end and a non-elliptical closed control curve forming a mouth.

9. (cancelled)

10. (cancelled)